```
 000000000    PPPPPPPPPPPP      CCCCCCCCCCC   000000000   MMM        MMM
 000000000    PPPPPPPPPPPP      CCCCCCCCCCC   000000000   MMM        MMM
 000000000    PPPPPPPPPPPP      CCCCCCCCCCC   000000000   MMM        MMM
000      000  PPP       PPP   CCC            000     000  MMMMM    MMMMM
000      000  PPP       PPP   CCC            000     000  MMMMMM  MMMMMM
000      000  PPP       PPP   CCC            000     000  MMMMMM  MMMMMM
000      000  PPP       PPP   CCC            000     000  MMM  MMMM  MMM
000      000  PPP       PPP   CCC            000     000  MMM  MMM   MMM
000      000  PPPPPPPPPPPP    CCC            000     000  MMM        MMM
000      000  PPPPPPPPPPPP    CCC            000     000  MMM        MMM
000      000  PPPPPPPPPPPP    CCC            000     000  MMM        MMM
000      000  PPP            CCC             000     000  MMM        MMM
000      000  PPP            CCC             000     000  MMM        MMM
000      000  PPP            CCC             000     000  MMM        MMM
000      000  PPP            CCC             000     000  MMM        MMM
000      000  PPP            CCC             000     000  MMM        MMM
000      000  PPP             CCC            000     000  MMM        MMM
   000000000  PPP              CCCCCCCCCCC   000000000   MMM        MMM
   000000000  PPP              CCCCCCCCCCC   000000000   MMM        MMM
   000000000  PPP              CCCCCCCCCCC   000000000   MMM        MMM
```

Sym

ALL

ASC

BOD
BOD
BOD
BOD
BOD
BOD
BOD
BOD
BUG
BYP
CAN
CAN
CAN
CHE
CHE

CLU
CLU
CLU
CLU
CLU
CLU
CLU

CLU
CLU
CLU
CLU
CLU
CLU
CLU

CLU
CLU

```
 000000     PPPPPPPP     CCCCCCCC     CCCCCCCC   RRRRRRRR      AAAAAA    SSSSSSSS  HH      HH
 000000     PPPPPPPP     CCCCCCCC     CCCCCCCC   RRRRRRRR      AAAAAA    SSSSSSSS  HH      HH
00    00    PP    PP   CC           CC           RR    RR    AA    AA  SS         HH      HH
00    00    PP    PP   CC           CC           RR    RR    AA    AA  SS         HH      HH
00    00    PP    PP   CC           CC           RR    RR    AA    AA  SS         HH      HH
00    00    PPPPPPPP   CC           CC           RRRRRRRR    AA    AA    SSSSSS   HHHHHHHHHH
00    00    PPPPPPPP   CC           CC           RRRRRRRR    AA    AA    SSSSSS   HHHHHHHHHH
00    00    PP         CC           CC           RR  RR    AAAAAAAAAA        SS   HH      HH
00    00    PP         CC           CC           RR  RR    AAAAAAAAAA        SS   HH      HH
00    00    PP         CC           CC           RR   RR    AA    AA         SS   HH      HH
00    00    PP         CC           CC           RR   RR    AA    AA         SS   HH      HH
 000000     PP           CCCCCCCC     CCCCCCCC   RR    RR    AA    AA  SSSSSSSS  HH      HH    ....
 000000     PP           CCCCCCCC     CCCCCCCC   RR    RR    AA    AA  SSSSSSSS  HH      HH    ....


MM      MM      AAAAAA     PPPPPPPP
MM      MM      AAAAAA     PPPPPPPP
MMMM  MMMM   AA    AA   PP      PP
MMMM  MMMM   AA    AA   PP      PP
MM MM MM MM  AA    AA   PP      PP
MM  MM  MM   AA    AA   PPPPPPPP
MM      MM   AA    AA   PPPPPPPP
MM      MM   AAAAAAAAAA  PP
MM      MM   AAAAAAAAAA  PP
MM      MM   AA    AA   PP
MM      MM   AA    AA   PP
MM      MM   AA    AA   PP
MM      MM   AA    AA   PP
```

```
                            +---------------------------+
                            ! Object Module Synopsis !
                            +---------------------------+
```

Module Name	Ident	Bytes	File	Creation Date	Creator
OPCCRASH	V04-000	558	_255DUA28:[OPCOM.OBJ]OPCOM.OLB;1	16-SEP-1984 01:59	VAX/VMS Macro V04-00
SYS	V04-000	0	_255DUA28:[SYSOBJ]SYS.STB;1	16-SEP-1984 04:00	VAX-11 Linker V04-00
SYS$SSDEF	V04-000	0	_255DUA28:[SYSLIB]STARLET.OLB;2	16-SEP-1984 01:18	VAX/VMS Macro V04-00

```
                                   +---------------------------+
                                   ! Image Section Synopsis !
                                   +---------------------------+

  Cluster        Type Pages   Base Addr  Disk VBN PFC Protection and Paging      Global Sec. Name   Match     Majorid   Minorid
  -------        ---- -----   ---------  -------- --- ----------------------     ----------------   -----     -------   -------

DEFAULT_CLUSTER    0    2     00000200      2   0 READ WRITE   COPY ON REF
                   0    1     00000600      4   0 READ WRITE   FIXUP VECTORS
                 253   20     7FFFD800      0   0 READ WRITE  DEMAND ZERO


        Key for special characters above:
                   +-------------------+
                   ! R  - Relocatable !
                   ! P  - Protected   !
                   +-------------------+
```

```
                              +-------------------------------+
                              ! Program Section Synopsis !
                              +-------------------------------+

Psect Name        Module Name        Base     End        Length              Align                        Attributes
----------        -----------        ----     ---        ------              -----                        ----------

OPCOM_CRASH                          00000200 00000200 00000000 (         0.) BYTE 0 NOPIC,USR,CON,REL,LCL,NOSHR,  EXE,  RD,NOWRT,NOVEC
                  OPCCRASH           00000200 00000200 00000000 (         0.) BYTE 0

OPCOM_CODE                           00000200 0000042D 0000022E (       558.) PAGE 9 NOPIC,USR,CON,REL,LCL,NOSHR,  EXE,  RD, WRT,NOVEC
                  OPCCRASH           00000200 0000042D 0000022E (       558.) PAGE 9
```

```
                         +----------------------------+
                         ! Symbol Cross Reference !
                         +----------------------------+


Symbol               Value          Defined By      Referenced By ...
------               -----          ----------      -------------
BUG$_OPERATOR        00000470       SYS             OPCCRASH
CLU$GL_CLUB          80003794       SYS             OPCCRASH
CNX$CHANGE_QUORUM    80003870       SYS             OPCCRASH
CNX$SHUTDOWN         80003876       SYS             OPCCRASH
CRASH                00000292-R     OPCCRASH
EXE$C_SYSEFN         0000001F       SYS             OPCCRASH
EXE$GL_FLAGS         800029A0       SYS             OPCCRASH
EXE$GL_SYSUCB        80002A18       SYS             OPCCRASH
EXE$V_BUGREBOOT      0000000D       SYS             OPCCRASH
IOC$FFCHAN           8001058C       SYS             OPCCRASH
SCH$GL_CURPCB        800021F8       SYS             OPCCRASH
SCH$GL_MFYLIM        80001F00       SYS             OPCCRASH
SCH$GL_MFYLOLIM      80001F0C       SYS             OPCCRASH
SCH$RWAIT            8000ADD5       SYS             OPCCRASH
SS$_NOTRAN           00000629       SYS$SSDEF       OPCCRASH
SYS$CMKRNL           7FFEDE90       SYS             OPCCRASH
SYS$HIBER            7FFEDF88       SYS             OPCCRASH
SYS$K_VERSION        48513258       SYS
SYS$QIOW             7FFEDE00       SYS             OPCCRASH
SYS$SETIMR           7FFEE020       SYS             OPCCRASH
SYS$TRNLOG           7FFEE058       SYS             OPCCRASH
SYS$WAITFR           7FFEE078       SYS             OPCCRASH
```

```
+-------------------+
! Symbols By Value !
+-------------------+
```

```
Value                                    Symbols...
-----                                    ----------
0000000D          EXE$V_BUGREBOOT
0000001F          EXE$C_SYSEFN
00000292    R-CRASH
00000470          BUG$_OPERATOR
00000629          SS$_NOTRAN
48513258          SYS$K_VERSION
7FFEDE00          SYS$QIOW
7FFEDE90          SYS$CMKRNL
7FFEDF88          SYS$HIBER
7FFEE020          SYS$SETIMR
7FFEE058          SYS$TRNLOG
7FFEE078          SYS$WAITFR
80001F00          SCH$GL_MFYLIM
80001F0C          SCH$GL_MFYLOLIM
800021F8          SCH$GL_CURPCB
800029A0          EXE$GL_FLAGS
80002A18          EXE$GL_SYSUCB
80003794          CLU$GL_CLUB
80003870          CNX$CHANGE_QUORUM
80003876          CNX$SHUTDOWN
8000ADD5          SCH$RWAIT
8001058C          IOC$FFCHAN
```

```
Key for special characters above:
      +-------------------+
      !  *  - Undefined   !
      !  U  - Universal   !
      !  R  - Relocatable !
      !  X  - External    !
      +-------------------+
```

```
                                   +------------------+
                                   ! Image Synopsis !
                                   +------------------+

Virtual memory allocated:               00000200 000007FF 00000600 (1536. bytes, 3. pages)
Stack size:                                  20. pages
Image header virtual block limits:            1.        1: (    1. block)
Image binary virtual block limits:            2.        4: (    3. blocks)
Image name and identification:          OPCCRASH V04-000
Number of files:                              4.
Number of modules:                            3.
Number of program sections:                   6.
Number of global symbols:                    21.
Number of cross references:                  42.
Number of image sections:                     3.
User transfer address:                  00000292
Image type:                             EXECUTABLE.
Map format:                             FULL WITH CROSS REFERENCE in file _$255$DUA28:[OPCOM.LIS]OPCCRASH.MAP;1
Estimated map length:                   23. blocks
                                 +------------------------+
                                 ! Link Run Statistics !
                                 +------------------------+

Performance Indicators                  Page Faults    CPU Time       Elapsed Time
----------------------                  -----------    --------       ------------
      Command processing:                       92    00:00:00.32    00:00:00.70
      Pass 1:                                   85    00:00:01.37    00:00:08.91
      Allocation/Relocation:                    24    00:00:00.16    00:00:01.24
      Pass 2:                                   35    00:00:00.33    00:00:01.72
      Map data after object module synopsis:    15    00:00:00.23    00:00:00.26
      Symbol table output:                       5    00:00:00.16    00:00:03.56
Total run values:                              256    00:00:02.57    00:00:16.39

Using a working set limited to 900 pages and 35 pages of data storage (excluding image)

Total number object records read (both passes):   230
    of which 57 were in libraries and 2 were DEBUG data records containing 86 bytes

Number of modules extracted explicitly          = 1
    with 1 extracted to resolve undefined symbols

21 library searches were for symbols not in the library searched

A total of 4 global symbol table records was written

LINK/USERLIB=PROC/NOTRACE/NOSYSSHR/EXECUTABLE=EXE$:OPCCRASH/MAP=MAP$:OPCCRASH/FULL/CROSS/SYMBOL=EXE$:OPCCRASH LIB$:OPCOM/INCLUDE=OPC
CRASH/LIBR,EXSM:SYS.STB/SELECTIVE
```

NPARSE
LIS

REQUEST
MAP

OPCOM

REPLY
MAP

NMLXFER
LIS

OPCCRASH
MAP

NMLV2STA
LIS

OPCOMLIB
B32

ALLOCATE
LIS

NMLZERO
LIS

OPCOMDEF
SDL

OPCOM
MAP

OPCDEFTMP
SDL

CANCEL
LIS